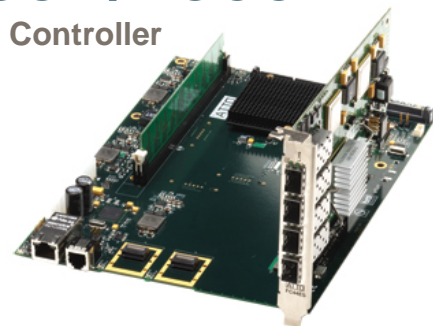




ATTO Technology, Inc.

# FastStream™ SC 5500E/7500E

Embeddable FC to SAS/SATA RAID Controller



## Embeddable RAID Controller adds instant RAID protection and ensures high storage availability

### Product Features

#### Instant Data Protection

- Instantly add parity protection to JBOD storage to ensure data is protected without compromising performance
- Aggregate multiple JBOD or RAID arrays to create a large pool of storage and provide higher bandwidth.

#### Blazing Fast Performance

- The FastStream SC provides the performance to support 24fps 4K digital film, 2K film or 10-bit uncompressed high definition video.
- 48fps 4K film supported with dual FastStream 7500E controllers
- Managed latency for the low block-sized data transfers associated with Audio and Database applications.

#### Smooth Data Streaming

- Support for multiple audio editing sessions over a SAN
- Allocate storage as needed on an application by application basis with the on-the-fly capacity expansion.
- Make unused storage available to the servers that need it most with Storage Pooling.

#### One-click Installation

- One button setup wizards optimize for Video, Audio, Database and General IT environments
- Add additional storage and expand existing RAID Groups while keeping all data intact.

The ATTO FastStream 5500E and 7500E are scalable RAID controllers that deliver high performance access to data and data protection for applications in DVA and IT infrastructures including: 4K and 2K digital film production, high-definition video post, digital prepress, disk-to-disk backup, audio production, email compliance, data warehousing, data mining and transaction based environments.

ATTO FastStream SC Fibre Channel to SAS/SATA Storage Controllers provide best of class performance and instant RAID parity protection to any SAS or SATA storage device; mix SAS and SATA to integrate into a tiered storage solution.

ATTO designed the FastStream to take advantage of the latest in storage connectivity and processor technology, these two benefits alone provide a path for OEMs to provide products with the fastest time to market. By embedding the FastStream SC 5500E or 7500E into a storage product and private labeling the browser interface, OEM customers can be sure to lower OEM development costs while creating a portfolio which complements existing product lines.

Designed as an embedded microATX RAID Controller which integrates with SAS or SATA storage to provide instant RAID protection and advanced intelligence, FastStream RAID Controllers can be seamlessly integrated into standard ATX or custom storage enclosures to provide a high performance storage solution.

The FastStream SC 5500E and 7500E add advanced intelligence features such as Phone Home email alerts, real-time performance metrics, N-way mirroring, global hot spares and more. Users can add storage as needed, when needed with the capacity expansion feature. Specific OEM-only features are available to provide a more synergistic look and feel to your product.

### Technical Highlights

- 5500E features two 4-Gb Fibre Channel host ports to provide performance of up to 650 MB/sec
- 7500E features four 4-Gb Fibre Channel host ports to provide performance of up to 1200 MB/sec
- Eight 3-Gb SAS/SATA Device Ports via two four-port connectors
- Digital Video RAID™ and RAID 0, 1, 4, 5, 10, 40, 50 with Global Hot Spares
- Cache memory - 512MB ECC Protected Memory (Upgradeable to 2GB)
- Advanced Management via RS-232 and Ethernet.
- ExpressNAV™ Storage Manager user interface
- Drive Verification and Performance Metrics
- Phone Home Error Notification
- O/S and Platform Independent
- RoHS Compliant

Technical Specification  
FastStream SC Embedded

## MicroATX RAID Controller OEM Only

For More Information:  
[www.ATTOTech.com](http://www.ATTOTech.com)  
 or to Purchase:  
[www.ATTOSTore.com](http://www.ATTOSTore.com)  
 (716) 691-1999



# FastStream™ SC 5500E/7500E

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## RAID Storage Controllers

Technical Features	
RAID Levels	<ul style="list-style-type: none"> <li>• JBOD, DVRAID, 0, 1, 4, 5, 6*, 10, 40, 50 and 60* plus N-way mirroring</li> </ul>
Key Features	<ul style="list-style-type: none"> <li>• Full Performance during Rebuilds</li> <li>• Real-time Performance Metrics</li> <li>• Application Performance Reporting</li> <li>• Global Hot Spares with Auto-rebuild</li> <li>• Audio Latency Management</li> <li>• Drive Initialization and Verification</li> <li>• Partitioning of RAID Volumes</li> <li>• Port Mapping for LUN Isolation</li> <li>• Zoning LUN mapping (optional)</li> <li>• One button setups for Audio, Video, IT</li> <li>• Field Upgradeable Firmware</li> <li>• O/S Independent Operation</li> <li>• Battery Backed Event Log</li> <li>• ECC Protected Memory</li> <li>• Phone Home email Error Notification</li> <li>• ExpressNAV™ Storage Manager</li> </ul>
Hardware Specifications	
Fibre Channel Interface	<ul style="list-style-type: none"> <li>• 4-Gigabit, auto-negotiates to 2/1 Gigabit devices</li> <li>• Two Optical SFP (Small Form Factor Pluggable) Fibre Channel ports (5500E)</li> <li>• Four Optical SFP (Small Form Factor Pluggable) Fibre Channel ports (7500E)</li> <li>• Full support for direct connect for F-port fabric switches</li> <li>• Class 3 and Intermix ANSI Fibre Channel Specifications</li> <li>• PLDA, public loop login (NL-ports) and fabric connect (N-port)</li> </ul>
SAS/SATA Interface	<ul style="list-style-type: none"> <li>• Eight 3-Gb SAS/SATA ports via two internal SFF-8484 SAS connectors</li> </ul>
Management Interface	<ul style="list-style-type: none"> <li>• RJ-45 connector for Ethernet management port</li> <li>• RS-232 serial header console port</li> </ul>
Management	
Setup and Monitoring	<ul style="list-style-type: none"> <li>• Simplified one-click setup allows for system setup in just minutes</li> <li>• Built in read-only drive performance monitoring allows you to gauge storage performance while host-based applications are in use</li> </ul>
Local and Network Management	<ul style="list-style-type: none"> <li>• ExpressNAV™ storage manager browser-based user interface for remote configuration, management and diagnostic capabilities</li> <li>• Local diagnostics supported via CLI, Telnet and FTP</li> <li>• Command line and menu-based ASCII text management access via the Ethernet management port and ExpressNAV</li> </ul>
Environmental & Physical Specifications	
Dimensions	<ul style="list-style-type: none"> <li>• 177.80mm (w) x 1U* (h) x 244mm (l) (*Up to 3U depending on configuration)</li> </ul>
Operating Environment	<ul style="list-style-type: none"> <li>• Temperature: 5 - 40° C • Humidity: 10 - 90% non-condensing</li> </ul>
Storage Environment	<ul style="list-style-type: none"> <li>• Temperature: -40 - 70° C • Humidity: 5 - 95% non-condensing</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Input: 12 VDC +/- 10%, 6A</li> </ul>
Recommended Airflow	<ul style="list-style-type: none"> <li>• 11 CFM</li> <li>• Ambient air not to exceed 40° C</li> </ul>
RoHS Compliant	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Ordering Information	
Model Numbers	<ul style="list-style-type: none"> <li>• FSSC-5500-E00 / 5500E • FSSC-7500-E00 / 7500E</li> </ul>

\*RAID 6 and 60 planned for Q4 2008

Technical Specification  
FastStream SC Embedded



Power Behind the Storage

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